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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/090,792

03/06/2002

Hiroyuki Toba

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6691

22428

7590

08/03/2004

FOLEY AND LARDNER

SUITE 500

3000 K STREET NW

WASHINGTON, DC 20007

EXAMINER

AMINZAY, SHAIMA Q

ART UNIT

PAPER NUMBER

2684

DATE MAILED: 08/03/2004

7

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/090,792

Applicant(s)

TOBA, HIROYUKI

Examiner

Shaima Q. Aminzay

Art Unit

2684

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to communications: Application Filed: 03/06/2002.
Foreign Priority Data: 03/21/2001.
2. Independent Claims 1, 18, and dependent claims 2-17, 19-27 are pending in the case.
3. The present title of the application is "Low power transponder circuit".

NON-FINAL ACTION

Claim Rejections - 35 USC § 103

- ◆ The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

- ◆ Claims 1-8, 10-11, 14-17, 18, and 21-24 are rejected under 35 U.S.C.103(a) as being unpatentable over Lee UK Patent Application GB2343324A, in view of Jahagirdar et al. U. S. Patent 6125286A.

4. Regarding claims 1, and 2, Lee teaches folded type mobile communication terminal apparatus comprising (see for example, Figures 1-2, page 1, lines 1-5):
a receiving section which receives a call or an e-mail from a counter end (see for

example, Figures 1, page 6, lines 17-19, the counter end call is being received by the receiver end), and a main display unit provided on an inner surface exposed when said mobile communication terminal is in an opened state (see for example, Figures 1, page 6, lines 16-27, the inner surface is exposed when the main display (16) is in an open state), and an external display unit provided on an outer surface exposed when said mobile communication terminal is in a closed state (see for example, Figures 2, page 4, lines 13-16), page 6, lines 27-29, the external display unit (18) provided on the outer surface when the mobile communication terminal is in a closed state), and a driver section which drives said main display unit and said external display unit state (see for example, Figures 1-3, page 4, lines 17-20, and page 6, lines 1-13 (correction on line 6: LCD 18, not 17), and lines 19-21, the driver 14 is provide to drive the external and internal displays), and a control circuit which controls data received are displayed on said main display unit in said opened state of said mobile communication terminal and on said external display unit in said closed state of said mobile communication terminal (see for example, Figures 1-3, page 4, lines 17-20, and page 6, lines 1-13 (correction on line 6: LCD 18, not 17), and lines 19-21," the CPU 10 controlling the whole functions of the mobile phone generates control signals for driving the LCD").

However, Lee does not teach specifically the call controller.

Jahagirdar teaches the call controller (see for example, Figure 5 (504), and Figure 8B, column 5, lines 66-67 continued to column 6, line 1, and column 6,

lines 14-20).

It would have been obvious to one of ordinary skill in the art at the time invention was made to combine Jahagirdar's cellular telephone call controlling function (see for example, column 1, lines 13-14, and column 5, lines 66-67) with Lee's folding-type mobile phone with external display unit (see for example, Figures 1-2, page 5, lines 9-30) to provide mobile communication "devices have flaps which cover the user interface for protection against various elements such as dirt or rain", "protection against inadvertent actuations at the keypad", and "viewing of the user interface", and further, to provide "a communication device having a user interface that is more accommodating to a user, and additionally one that does not substantially increase a power consumption or cost of the communication device" (Jahagirdar , column 1, lines 24-34).

5. Regarding claims 3, 4, Lee and Jahagirdar teach claim 2, and further, Jahagirdar teaches when the a time period passes away without a replay to the received call by a user after the display of the data relating to the reception of said call close or opened position (see for example, Figures 8B (832), column 7, lines 12-34, data relating to the call displays on both main and external displays, closed or open state, the user can select to answer the call, so the wait time is determined by the user).
6. Regarding claim 5, Lee and Jahagirdar teach claim 1, and further, Jahagirdar teaches the control circuit stores said data of said received call which is not

replied by a user in said memory as non-replied (column 7, lines 18-20, the answered calls are saved in memory).

7. Regarding claims 6, 7, 8, and 23, Lee and Jahagirdar teach claims 5, 22, and further, Jahagirdar teaches outer function keys controlled by the control circuit (see for example, column 6, lines 41-45, the function keys are activated while outer section is in closed state), and the instructions and caller information can be displayed by scrolling (see for example, column 6, lines 10-13, and lines 35-37), and processing display switch instruction (see for example, column 3, lines 61-63, and column 4, lines 21-26).
8. Regarding claims 10, 11, 26, and 27, Lee and Jahagirdar teach claims 1, 18, and further, Jahagirdar teaches the received call includes at least one of a phone number of said counter end, a name of said counter end, and a reception date and time (see for example, column 6, lines 1-10, and 28-32, caller ID can include phone number, time of call and the name of the counter end), and the received call information displayed (see for example, column 6, lines 1-10, and 28-32).
9. Regarding claims 14, 15, 16, 19, 20, and 24, Lee and Jahagirdar teach claims 1, 18, 22, and further, Lee teaches detecting unit which detects whether said mobile communication terminal is in said opened state or in said closed state (see for example, column 6, lines 14-17, and lines 49-54, the controller (504) detects the open or closed state of the external and main displays), and first driver for said main display unit and a second driver for said external display unit state (see for example, Figure 5, the driver (518) for the main display (520) and

the driver (514) for the external display (516), and column 7, lines 27-29), and provided driver control switch (see for example, column 4, lines 23-26), and the external display can be active when in closed state and the main display can be active when in open state (see for example, column 6, lines 20-29).

10. Regarding claim 17, Lee and Jahagirdar teach claim 16, and further Lee teaches the same set of information can be displayed on both main and external displays (see for example, page 6, lines 15-29, the same information or equal digits can be displayed on both main and external displays).
11. Regarding claims 18, 21, Lee teaches using a folded type mobile communication terminal apparatus (see for example, Figures 1-2, page 1, lines 1-5), carrying out a display control such that data relating to the reception of the RF are displayed on a main display unit based on the opened state detection signal (see for example, Figures 3, page 6, lines 14-29, the received data display on a main display (Figure 1 (16)) based on the controller detection (column 6, lines 1-13)), and on a external display unit based on said closed state detection signal (see for example, Figures 3, page 6, lines 14-29, the received data display on a external display (Figure 2 (18)) based on the controller detection (column 6, lines 1-13)), and the main display unit is provided on an inner surface exposed when said mobile communication terminal is in said opened state signal (see for example, Figures 1(16), column 6, lines 14-27, the main display unit (16) provided on an inner surface when the mobile terminal is in the opened state (folder 200 is open)), and said external display unit is provided on an outer

surface exposed when said mobile communication terminal is in said closed state (see for example, Figures 2(18), column 6, lines 14-27, the external display unit (18) provided on an outer surface when the mobile terminal is in the closed state (folder 200 is closed)),

However, Lee does not teach specifically the call controller.

Jahagirdar teaches the call controller (see for example, Figure 5 (504), and Figure 8B, column 5, lines 66-67 continued to column 6, line 1, and column 6, lines 14-20, controller (504) detects an incoming call and receives the call from a counter end (column 5, lines 1-2 continued to column 6, lines 1-13), and detecting whether the mobile terminal is in an opened or closed state (column 6, lines 14-17, and lines 49-54).

It would have been obvious to one of ordinary skill in the art at the time invention was made to combine Jahagirdar's cellular telephone call controlling function (see for example, column 1, lines 13-14, and column 5, lines 66-67) with Lee's folding-type mobile phone with external display unit (see for example, Figures 1-2, page 5, lines 9-30) to provide mobile communication "devices have flaps which cover the user interface for protection against various elements such as dirt or rain", "protection against inadvertent actuations at the keypad", and "viewing of the user interface", and further, to provide "a communication device having a user interface that is more accommodating to a user, and additionally one that does not substantially increase a power consumption or cost of the communication device" (Jahagirdar , column 1, lines 24-34).

12. Regarding claims 22, 23, and 24, Lee and Jahagirdar teach claim 21, and further, Jahagirdar teaches the control circuit storing said data of said received call which is not replied by a user in said memory as non-replied (column 7, lines 18-20, the an-un-answered calls are saved in memory), reading out the non-reply call data from the memory (see for example, column 7, lines 18-22, and Figures 8A-8B (848, 850, 852)).

◆ Claims 9, 12, 13, and 25 are rejected under 35 U.S.C.103(a) as being unpatentable over Lee UK Patent Application GB2343324A, in view of Jahagirdar et al. U. S. Patent 6125286A., and further in view of Reber et al. U. S. Patent 6002946.

13. Regarding claims 9, 12, 13, and 25, Lee and Jahagirdar teach claims 1, 18. However, Lee and Jahagirdar do not teach an electronic mail function.

Reber teaches an electronic mail function (see for example, column 7, lines 16-20, the e-mail command can be used to receive e-mail data). .

It would have been obvious to one of ordinary skill in the art at the time invention was made to combine Reber's mobile communication device e-mail function (see for example, column 3, lines 1-4) with Jahagirdar's cellular telephone call controlling function (see for example, column 1, lines 13-14, and column 5, lines 66-67) with Lee's folding-type mobile phone with external display unit (see for example, Figures 1-2, page 5, lines 9-30) to provide mobile communication "devices have flaps which cover the user interface for protection

Art Unit: 2684

against various elements such as dirt or rain", "protection against inadvertent actuations at the keypad", and "viewing of the user interface" (Jahagirdar , column 1, lines 24-30), and to provide transceiver "include, but are not limited to, a cellular telephone transceiver, a cordless telephone transceiver, a personal communication system (PCS) transceiver, a selective call receiver, a two-way pager transceiver, and other wireless transceivers" (Reber, column 3, lines 1-4).

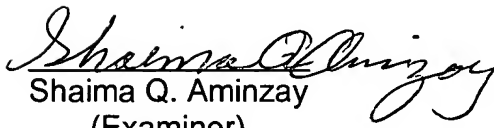
Conclusion

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 form.


Inquiry

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shaima Q. Aminzay whose telephone number is 703-305-8723. The examiner can normally be reached on 7:00 AM -5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Shaima Q. Aminzay
(Examiner)

July, 18, 2004


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SUPERVISORY PATENT EXAMINER
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Art Unit 2684